

EQUILIBRIUM BASED HORIZONTAL SYNC DETECTOR FOR VIDEO DECODER

ABSTRACT

[054] The present invention discloses a horizontal sync detector circuit (10) comprising a filter portion (12), an equilibrium accumulator portion (14) coupled to the filter portion (12), a horizontal sync detector portion (16) coupled to the filter portion (12) and to the equilibrium accumulator portion (14), and an output logic portion (18) coupled to the horizontal sync detector portion (16), the output logic portion (18) adapted to produce a phase error (116) based on a combination of a coarse phase error (108) and a fine phase error (112).